

20000314.qrp v01_n760.qrl.20000314

Date: Tue, 14 Mar 2000 19:03:12 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1760

QRP-L Digest 1760

Topics covered in this issue include:

- 1) [65630] Drake C-Line @ QRP
by Buck Switzer <n8cqa@tir.com>
- 2) [65631] hw7
by Robert G Seymour <bobsey1@juno.com>
- 3) [65632] FS: OHR 400
by k5zty@juno.com
- 4) [65633] FS: QST CD SETS 1915 - 1998
by "KA5T Larry Wise" <lewise@inetport.com>
- 5) [65634] Forum: Arkie Con Registration
by "Doug Hendricks" <ki6ds@dospalos.org>
- 6) [65635] SNAP reports and a beautiful construction job!
by "George Heron N2APB" <n2apb@erols.com>
- 7) [65636] HB: Pocket Radio Tuning Caps?
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 8) [65637] FS: KU7Y Retirement Sale
by "NA6E" <na6e@qsl.net>
- 9) [65638] Re: Cheap Magnifying Spectacles, Old Guys, SMT
by Dave Fifield <fifield@pacbell.net>
- 10) [65639] Free RF Software
by d.nordquest@juno.com
- 11) [65640] Re: Cheap Magnifying Spectacles, Old Guys, SMT
by "Alan Kaul" <alan.kaul@worldnet.att.net>
- 12) [65641] For Sale
by radioham@home.com
- 13) [65642] ten rec argonaut calibrator wanted
by "Michael Herman" <kc9nf@hotmail.com>
- 14) [65643] FS: Books, Back issues, etc
by "KA5T Larry Wise" <lewise@inetport.com>
- 15) [65644] Re: XTALS, PCB stock needed. [Moving the TT2 and SNAP kits to different bands]
by "George Heron N2APB" <n2apb@erols.com>
- 16) [65645] SMT Soldering Station
by "Rod, N0RC" <n0rc@qsl.net>
- 17) [65646] Re: Want: 10 meter Beacon Plans
by "Brian P. Mileschosky" <n5zgt@swcp.com>
- 18) [65647] Books for Sale...
by "Bruce Hopkins - KL7H" <kl7h@gci.net>

- 19) [65648] Tuna Tin 2
by Bill Nicolson <n2wf@erols.com>
- 20) [65649] 1/2" CATV coax and PL-259 connectors
by Peter_Simpson@ne.3com.com
- 21) [65650] Yellow Ethernet Coax
by Peter_Simpson@ne.3com.com
- 22) [65651] LEGO key..
by "Andy GM0NWI" <Gm0nwi@tesco.net>
- 23) [65652] F/S or Swap
by "Francis Callahan" <colcal@srv.net>
- 24) [65653] Nice DX on 15 meters last night
by "Peter Pavlovich" <radioroom@hotmail.com>
- 25) [65654] Houston Hounds
by "Joe Spencer" <joes@tcjc.cc.tx.us>
- 26) [65655] Re: Cheap Magnifying Spectacles, Old Guys, SMT
by Bruce Kizerian <kizerian@ced.utah.edu>
- 27) [65656] SMT-1 Kit Status
by "Randy Randall" <RANDALLR@Healthall.com>
- 28) [65657] Question: QRP+ and Companion
by Maurice L Haynes <kv7g@juno.com>
- 29) [65658] Re: FS: Books and Manuals Back issues etc
by "KA5T Larry Wise" <lewise@inetport.com>
- 30) [65659] Re: Mouser lookup Help???
by "Barry L. Geipel AD6HR" <bgeipel@primenet.com>
- 31) [65660] SNAP transformer in SPICE
by Gregory Lawrence <gwl1@cornell.edu>
- 32) [65661] New K2
by hamjoel@juno.com
- 33) [65662] Re: 1/2" CATV coax and PL-259 connectors
by Monte Stark <ku7y@dri.edu>
- 34) [65663] Re: FS: KU7Y Retirement Sale
by Monte Stark <ku7y@dri.edu>
- 35) [65664] FS: Books, Manuals, Hardware, etc Still Available
by "KA5T Larry Wise" <lewise@inetport.com>
- 36) [65665] XCVR: sell Sierra/KC2 or trade for Sierra/KC1
by Allan G Taylor <agtaylor@llnl.gov>
- 37) [65666] RE: Question: QRP+ and Companion
by "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>
- 38) [65667] RE: Question: QRP+ and Companion
by "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>
- 39) [65668] Re: FS: KU7Y Retirement Sale
by "George T. Baker" <w5yr@att.net>
- 40) [65669] Re: Question: QRP+ and Companion
by ARDUJENSKI@aol.com
- 41) [65670] Humourous CW snafu.
by Ed Loranger <we6w@qsl.net>
- 42) [65671] SPICE: xfrm modeling
by Chuck Adams <adamsc@pr.erau.edu>

- 43) [65672] SMD Parts Hold-Down Jig
by Bill Jones <kd7s@psnw.com>
- 44) [65673] NorCal: SMK-1 Kit Status Report
by "Doug Hendricks" <ki6ds@hotmail.com>
- 45) [65674] Milliwatt QSO
by lenny wintfeld <w2bvh@home.com>
- 46) [65675] HP-8558B Spec An help needed
by "Richard E. Robinson" <rerobins@email.uncc.edu>
- 47) [65676] Technical: Moving the TT2 to other bands
by "Doug Hendricks" <ki6ds@hotmail.com>
- 48) [65677] HB Paddle Keys
by sherers@iname.com (Stephen Sherer)
- 49) [65678] RE: HB Paddle Keys
by Dave Barrett <DBarrett@creo.com>
- 50) [65679] SNAP: hints and kinks
by Chuck Adams <adamsc@pr.erau.edu>
- 51) [65680] 38 Special FS
by Jim/Julia <w7ls@blarg.net>
- 52) [65681] QRQ Net Practice Sentences.
by Ed Loranger <we6w@qsl.net>
- 53) [65682] SW-40+ for sale
by Jim/Julia <w7ls@blarg.net>
- 54) [65683] Attention Kitano Key Users
by Bill Jones <kd7s@psnw.com>
- 55) [65684] [FOX]: W1FB tonight
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 56) [65685] Re: HB Paddle Keys
by "Carel Mulder, PA0CMU" <cmulder@casema.net>
- 57) [65686] NB6M Paddles, wow cool!
by Ed Loranger <we6w@qsl.net>
- 58) [65687] Re: [FOX]: W1FB tonight
by k1vp@lawson-philpot.com
- 59) [65688] RE: [FOX]: W1FB tonight
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 60) [65689] Re: Houston Hounds
by tom palmer <n1tp@worldnet.att.net>
- 61) [65690] Re: FS: KU7Y Retirement Sale
by Ray Colbert <af852@rgfn.epcc.edu>
- 62) [65691] NB6Zep QRP antenna
by "Richard Griffin" <richardg@protocol.com>
- 63) [65692] Re: [FOX]: W1FB tonight
by "Dan W. Dooley" <dandooley@pipeline.com>
- 64) [65693] 20 Meter activity testing.
by Ed Loranger <we6w@qsl.net>

Date: Mon, 13 Mar 2000 19:35:45 -0500

From: Buck Switzer <n8cqa@tir.com>
To: qrp-l@lehigh.edu
Cc: n8cqa@tir.com
Subject: [65630] Drake C-Line @ QRP
Message-ID: <38CD8961.98FE4A2D@tir.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang - I deleted the message from someone on the list who was experiencing unstable output at QRP levels. However, with my old TR-4C and the C-Line. I was able to get stable output of less than 1 watt, by tuning the rig up to max (120W) then cranking the drive control down. Trying to load it at QRP levels gave very erratic results. Hope this works for you.

73 Buck N8CQA

Date: Mon, 13 Mar 2000 19:04:31 -0800
From: Robert G Seymour <bobsey1@juno.com>
To: qrp-l@lehigh.edu
Subject: [65631] hw7
Message-ID: <20000313.190432.-106195.2.bobsey1@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

The manual has gone to the one who originally requested it. Sorry I didn't have enough to go around!!

Bob, W0LK

YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Mon, 13 Mar 2000 19:10:34 -0600
From: k5zty@juno.com
To: qrp-l@lehigh.edu
Subject: [65632] FS: OHR 400
Message-ID: <20000313.191039.-6667.0.k5zty@juno.com>
MIME-Version: 1.0
Content-Type: text/plain

Content-Transfer-Encoding: 7bit

For sale to a good home: OHR 400 four band transciever with built in keyer. Adjustable 5 watts + out on 80, 40, 30, and 20 meters CW with original manual. Built by me in June '96, aligned by Oak Hills Research in Nov.'96. Documentation included. Five mods. 1. Moved power out control to front panel., 2. added reverse polarity protection, 3. added red and black 5 way binding post to rear panel for auxiluary power in and out connections, 4. put over size solid brass tuning knob on tuining dial. (original plastic knob included). 5. added built in speaker inside top cover.

This radio works perfectly and has a great receiver. The cabinet has some scuff marks on it from going portable but there are no dings. dents or gouges. It looks good.

\$250.00 plus \$8.00 shipping priority mail. (insurance not included)

Bill, K5ZTY
Houston, TX
k5zty@juno.com

Date: Tue, 14 Mar 2000 01:13:25
From: "KA5T Larry Wise" <lewise@inetport.com>
To: "qrp" <qrp-1@lehigh.edu>
Subject: [65633] FS: QST CD SETS 1915 - 1998
Message-ID: <200003140112.TAA04392@admin.inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Complete QST CD SET. Includes 11 multi CD sets that cover 1915 thru 1994, and 4 single CDs with QST,QEX and NCJ for 1995 thru 1998.
\$310 shipped CONUS

Larry KA5T
Georgetown, TX

Date: Mon, 13 Mar 2000 18:31:26 -0800
From: "Doug Hendricks" <ki6ds@dospalos.org>

To: <qrp-1@lehigh.edu>
Subject: [65634] Forum: Arkie Con Registration
Message-ID: <009f01bf8d5d\$66a61aa0\$a17d68cf@DougHendricks>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guys, want to encourage you to preregister for Arkiecon to be held April the 8th in Fort Smith, Arkansas. Jay Bromley, Kelsey Mikel, Win Dooley, Keith Newman and Royce Rainwater have a big party planned. Lots of fun, great speaker lineup, and if you preregister you will get an extra ticket for the prize drawing. The funding for this free event came from the proceeds of the VE3DNL Marker Generator that Jay has been selling all year. Not only did it allow him to fly in the guest speakers, but it allowed him to purchase a great grand prize. When you preregister it does a couple of things, one it gets you another prize ticket, two it lets Jay and the boys know that people are planning on coming, and that is a big help for the morale of the troops, and three, it lets them know how many people are coming so they can make plans.

They are planning a no host dinner Friday night at a great restaurant, (I know because we ate there last year, some of the best turkey fries I have ever eaten), forums featuring Paul Harden, Jim Duffey, Doug Hendricks, Chuck Adams, Dave Gauding, and Mr. VE3DNL himself, Glen Leinweber. That is a pretty heavy duty lineup guys. Then Saturday evening there is a QRP open house, where you will get to meet and visit with all of the forum speakers, who will all be there. Plus, there will be QRP stations set up, plans right now include having all of the current rigs set up so you can try them on real antennas, courtesy of Dave Gauding, who will be setting up several of his portable antennas, and we'll even have one of Vern Wright's PW-1 antennas there. Vern very graciously donated one as a prize, and it will be given away to some lucky winner with the grand prize transceiver.

Lots of fun planned, but we need your help. Get that registration in to Jay at w5jay@alltel.net or check with the NorCal page under Arkiecon. By the way, a point of clarification. Arkiecon has nothing to do with arkie or ARCI, but comes from Arkansas and Con, a suffix that has come to mean great QRP fun a la Atlanticon, Celticon, Hamcon, Pacificon, and now Arkiecon, sponsored in whole by the Fort Smith QRP Group. Hope to see you there in just about a month. This is a great opportunity for all of you qrpers in Kansas, Missouri, Louisiana, Mississippi, Texas and Baja Kansas (Oklahoma) to get to a great QRP forum and have some big time fun. Thanks for your support. 72, Doug, KI6DS

Date: Mon, 13 Mar 2000 22:02:21 -0500
From: "George Heron N2APB" <n2apb@erols.com>
To: "NJQRP" <NJQRP@njqrp.org>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [65635] SNAP reports and a beautiful construction job!
Message-ID: <006901bf8d61\$b9a7f6c0\$de5daccf@ire.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

We've been receiving all sorts of very positive reports from QRPers building the SNAP transmitter kit for Atlanticon. And it seems guys are having just as much fun putting their little QRPP transmitter on the air as they are building it! But one thing is coming through loud and clear: almost to a person, builders of the SNAP kit are remarking how fun and intuitively simple construction is "Manhattan-style".

You all should take a look at a new phot we have ... the SNAP homebrew job done by the Grand Master of Manhattan-style construction: Jim Kortge, K8IQY. This is the guy who started the craze with his design and construction of the 2N2/40 Transceiver, which still sets the bar for all of us. Jim is one of the judges for the SNAP competition at Atlanticon, and thus is ineligible for the competition ... so take a look at his techniques and see if you can get any ideas for *your* SNAP project! The photo is on the NJQRP website pages for the SNAP Kit: <http://www.njqrp.org/atlanticon/example.html>

And don't forget that our resident Manhattan-style Professor, and designer of the SNAP circuit CHUCK ADAMS K7QO has promised us a blow-by-blow description of putting together your SNAP "a la Manhattan" here on the QRP-L. So if you haven't yet started your kit (and there are about 150 of them out around the country now), get ready for an Elmer Instruction Deluxe!

73, George N2APB

<http://www.njqrp.org/atlanticon> Atlanticon QRP Forum details for March 24-25 weekend

<http://www.njqrp.org/atlanticon/snap.html> SNAP kit web page containing schematic, layout, photos

=====
WHAT QRPers ARE SAYING ABOUT THEIR SNAP PROJECT
=====

I always say, if everything worked right off with no problems, you would never learn anything. Well, I'm always learning, I guess! No output with the SNAP at first...tried a different crystal, then got 3rd overtone output...huhhh? Someone posted something about 35 turns on the coil...what 35 turns, I don't remember any 35 turns. Sure enough, I had put 17 turns (where did that come from!?) on L1. Rewound it to 35 turns, put in original ctystal, wow, running 28 mW, on the right frequency, too! And in

the prettiest little mini-Altoids tin to boot!
See y'all at Atlanticon.

Ed, K2MGM.

=====

Worked WA3RLT tonite with my little 12 mw SNAP - a distance of about 50 miles, maybe more. Wonder what the miles per watt would be with this contact??? Ben was running QRO, and was about 579 here. He gave me a 119 report! Get your "SNAPS" built, fellows and gals - it's a lot of fun! (Used my DSW 80 as the receiver for this QSO.)

73 de Lamar, N3AT

=====

The Carbon Amateur Radio Club performed an interesting experiment on Mar 1, after its weekly net. Several of the club members listened for my little "Snap" transmitter, while I sent a series of V's and then my call letters. It was heard in Lehighton, Lansford, and Weatherly, in spite of some QRM that was on the frequency. Prior to this experiment I had measured the output on the OHR WM 1, and it indicated that it was producing about 12 milliwatts! Nothing world shaking, but it does work!

72 de Lamar, N3AT

=====

I built up my Atlanticon SNAP QRPp Transmitter this evening. I used all stock components except for a larger wattage R3 (No magic here, I dropped the original under the work bench). Output looks like about 14.6 mW. Interesting observation to watch the power level rise over the first minute or so. I guess even solid state stuff has to "warm up". C'mon guys...melt some solder and post your milliwatts.

73, Skip N2EI

=====

OK, I finally got the SNAP in a box with antenna connector and key jack. Loads up the 80 meter loop quite well. Am using the Sierra as a hearing aid, so who wants to meet on 3.579? Dave?, Lamar? Anybody?

72/73 de Bob W3BBO

=====

Just got my SNAP done,... Fired right up and looks like abt 22mW. Right on freq too. Hooked on the antenna (40m) and nothing. ohoh, thats right, not a match, so a little ZM-2 and it's back on the air. Robert... you out there now??? try at 1530 EST I'll been on for abt 15mins.

all best, Tom aa2vk

=====

Hey you guys are *great*!! The SNAP wasn't originally intended for actual contacts on the air, or at least not at first. Our first goal was to provide a Manhattan-style kit that one could play with to get built as pretty as possible and get as much power out as possible. THEN, after Atlanticon, with some extra add-on circuits we will point out there, guys would put this thing on the air. Pretty cool!

Ahem ... did anyone notice that you could pump the output of the SNAP into the INPUT of the FB40 Amp pcb to get a nice 1.5W amplifier on the SNAP signal? Would take a few component changes in the output filter (to take it

ffrom the native 40m down to 80m), but those component recommendations are right in the Amp manual. Just an idea or two ;-)

73, George N2APB

=====

I finished up my SNAP last night. With parts supplied and different batteries I'm getting ~16-19mW out. What is, or how do I calculate, the theoretical max? I went for a very compact construction and got it crammed onto about 2/3 of the board provided, using only seven pads. Now that I see it complete, I think I could get it into 1/2 or a bit less of the board provided.

FWIW: This kit got me interested in Manhattan Construction. In fact I went out yesterday & bought a "pad punch" at Harbor Freight. Now I'm looking for a good "next project", with a little more complexity. I'm thinking about Dave Fifield's TT2/MRX combo. Other suggestions? I'd really like something for 20 or 30 meters.

72/3 Rod, N0RC -- Fort Collins, CO

=====

It was my first Manhattan, I had a great time. This was worth the registration price of Atlanticon alone. Good work.

See you at Atlanticon 2k

best, Tom aa2vk

=====

This was my first-ever attempt at Manhattan-style building, and I like it! I did learn that I need to be a little more liberal with the Crazy Glue. A couple of pads didn't want to stick to the ground plane too well but it didn't matter. They're being held in place by the component leads anyway. I undertook the project not so much out of a wild desire to have a 15 mA rock-bound transmitter but for the fun and experience of trying Manhattan-style construction on a manageable scale. On that level, the project was very successful. Has anyone taken voltages around a working circuit? Maybe I can check it that way.

72, David N2SMH

=====

Made my first QSO with the SNAP this evening. Actually I called CQ with the Sierra running 3 watts and was answered by Don, W4HJL in Manassas, VA. After the initial exchange, I asked him to QRX, then called him with the SNAP. He replied and said I was very, very weak, but he heard me. So gang, I'll stick around here and try CQing with both the Sierra and the SNAP. Please stop by and maybe we can make a go of it with the SNAP.

73 de W3BBO

=====

It's your basic flavor; learn to get it right and working the first time. I didn't stray far from the stock plans, just wanted to put it in an enclosure and try it on the air. Funny, after getting done, I realized how much extra room there was on the stock board and what I would have done differently... well, maybe I'll just build another before the deadline. Tks agn for your effort putting these kits together,

Tom

=====

Wow! Just got off the air after a contact with Jim VA3JEG in Woodbridge, Ontario. My first DX with the SNAP rig. As usual I was calling CQ with the Sierra, only this time about 2 watts. Jim came back to me and he was extremely strong and said he was running a Swan 350. He was 599 plus here and gave my Sierra a 589. I asked him to QRX and called him on the SNAP. Believe it or not, we finished the QSO with the SNAP. Jim was very generous and gave me a 579 using the SNAP. I am very, very impressed with the SNAP! I don't think it will usurp the K2, or even the Sierra, but for running a little under 20 mw....Wow!

73 de Bob W3BB0

=====

It's a good time tonight... Made it to W3BB0 on the SNAP , prob 20mw or less. Heard him through the fringes of QST code. Anyway Bob, hopefully you copied the RST sent, The repeat of my call was needed, you were real low of course.

all best, Tom aa2vk

=====

Date: Mon, 13 Mar 2000 21:12:24 -0600
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: QRP-L Distribute <qrp-l@Lehigh.EDU>
Subject: [65636] HB: Pocket Radio Tuning Caps?
Message-ID: <019a01bf8d63\$1f54e7c0\$6e773ed8@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

I have a box of old pocket AM/FM tuning capacitors and I would like to use one in another end-fed halfwave antenna coupler I am making. Of course these are small but since there is a dielectric spacer between the stator and rotor I suspect that they may withstand a little bit of QRP voltage :-). Since I will be using the capacitor at the high impedance (read high voltage) end of a dipole and in a parallel circuit, there will be the maximum RF voltage across the cap. My power output will 3.5 W but calculating the RF voltage is difficult since I don't know the loaded Q of the circuit. I'm guessing the voltage will be between about 80 and 150 volts RMS. The capacitor I'm interested in is made by Mitsubishi and I've never seen much difference between any of them physically.

Does anyone know what the breakdown voltage of this kind of capacitor is or have they used one in a similar circuit as mine successfully? Also, has anyone noticed or suspected capacitance drift due to loss induced thermal changes within the capacitor?

Thanks.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: Mon, 13 Mar 2000 19:46:05 -0800
From: "NA6E" <na6e@qsl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [65637] FS: KU7Y Retirement Sale
Message-ID: <LPBBKMHGKJHAFCHLDJBAGEMDCDAA.na6e@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The following are for sale and currently stored at the KU7Y depository...my
qth !!! All items are used and in good condition, sold "as is" unless
otherwise noted. All prices include shipping CONUS.

HEATHKIT TUNNEL DIPPER Model HM 10A with all coils
\$50.00

Includes manual

TELEX HEADSET W/BOOM MIKE \$40.00
Model 2400

TELEX HEADPHONES \$10.00

MICROPHONE: Astatic 10DA \$75.00

TWO-TONE GENERATOR \$310
Automated Industrial Electronics Model 2TSG-1 w/manual

CRYSTALS: from Phoenix Crystals \$20.00 for all
(FT-243's) 7030,7035,7040,7045,7050

SCREWDRIVER ANTENNA DK3 \$110.00
(never used)

HUSTLER ANTENNA \$75.00
RM 40/30/20 resonators and fold over mast

BAY PAC BP-2 Packet Modem \$40.00
(never used..in original shipping box)

AND LAST BUT NOT LEAST FROM MY OWN SHACK.....

WILDERNESS KC1 KEYS/COUNTER KIT (unbuilt) \$40.00

SPIDER ANTENNA 40 -10 METERS \$165.00

TURNER +2 MIC W/BUILT IN AMP \$20.00

73

Mary, NA6E

Sacramento, CA

QRP-C #7 QRP-ARCI #9923 WHINER'S #2

Date: Mon, 13 Mar 2000 20:08:03 -0800
From: Dave Fifield <fifield@pacbell.net>
To: kizerian@ced.utah.edu, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65638] Re: Cheap Magnifying Spectacles, Old Guys, SMT
Message-ID: <004301bf8d6a\$e4f3dca0\$0100a8c0@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Hmmm.....I went to Long's Drugs today and tried this idea with their +3.0 diopter half-size glasses. I was expecting 3x magnification, but was disappointed. They hardly seemed to magnify at all. They provided clear focus only from distances about 6" away, and from that distance I could see everything just as large and clearly using just my normal glasses (I had the +3.0 lenses positioned at the bottom of my normal glasses, so I could compare the two).

What am I missing? Or is this method really not all it's cracked up to be?

Curious,
Dave Fifield, AD6A

(snip)

> Buy two pairs of cheap reading glasses at your local
> discount store. The first should be a full size pair just

> strong enough for you to read or do normal assembly at your
> work bench. The second should be a pair with the half sized
> lenses (the kind that look like someone cut off the top half
> of the lens) as strong as you can find--probably around
> 2.75+ diopter. Take the smaller lenses out of their frames
> and glue them to the bottom half of the front of the larger
> pair. I used a small amount of hot glue applied to the
> bottom edges only of the smaller lenses. That's all there is
> to it. They work as well or better than the flip down kind,
> and they don't get in the way when you want to get close to
> your work.
(snip)

Date: Mon, 13 Mar 2000 23:41:33 -0500
From: d.nordquest@juno.com
To: qrp-1@lehigh.edu
Subject: [65639] Free RF Software
Message-ID: <20000313.234314.9158.1.d.nordquest@juno.com>

Peter Ward has kindly made available free the RF worksheets (for Excel)
he's developed over several years. They're on the NEC Archives site,
along with a full description.

Find them at: <http://www.qsl.net/wb6tpu/swindex.html>.

Peter's reason for making the sheets available is worth quoting:

"And why is all this free?

As a youth I grew up to appreciate Amateur Radio operators as real
technicians.
They had great knowledge. Listening on air was a thrill as this knowledge
was freely
discussed, challenged, explained and exchanged. But, unless you have the
knowledge,
you can't exchange it, which may help explain the paucity of intellectual
content on
the airwaves today!

So, ...this is posted freely only on the 'Unofficial NEC Archives' to
encourage others to

.....learn a bit...

.....keep sharing and

..... KEEP THE DREAM ALIVE! "

(from Peter Ward's posting)

YOU'RE PAYING TOO MUCH FOR THE INTERNET!

Juno now offers FREE Internet Access!

Try it today - there's no risk! For your FREE software, visit:

<http://dl.www.juno.com/get/tagj>.

Date: Mon, 13 Mar 2000 20:43:56 -0800

From: "Alan Kaul" <alan.kaul@worldnet.att.net>

To: <fifiield@pacbell.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [65640] Re: Cheap Magnifying Spectacles, Old Guys, SMT

Message-ID: <002201bf8d6f\$e99055e0\$4749480c@default>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

The inexpensive reading glasses are not magnifying lenses -- they are diopters. They shorten the focal length. TV News crews usually use a diopter which attaches to the front of their camera lens when they want to read the fine print in a document or want to more clearly see the details of the photograph they're copying.

It enlarges by allowing a smaller area to completely fill the field of view of the camera. But the larger the diopter, the more critical the focus and the less the depth of field.

Alan Kaul, W6RCL, LaCanada, CA

w6rcl@amsat.org , <http://home.att.net/~alan.kaul/index.html>

Date: Tue, 14 Mar 2000 00:03:04 -0500

From: radioham@home.com

To: qrp-1@lehigh.edu

Subject: [65641] For Sale

Message-ID: <3.0.6.32.20000314000304.007a9ab0@24.2.2.70>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Well, only a few nibbles on the HW-8, so price is reduced to \$140 shipped UPS. Details: Heath HW-8 with HWA-7-1 power supply, original manual for HW-8, HotWater Handbook, hb outboard audio xfmer and battery power cable.

Rig and power supply are in very good physical condition. HW-8 works well, could probably use an alignment, power out is 1.5 to 2 watts. No known modifications.

Another item - KE Electronics Memo 512 keyer - built in power supply, runs off 120VAC, has built in plexiglass paddles and a built in speaker. Two memories which I have never figured out how to use. I used it as a practice keyer to learn how to use paddles. It is set up for grid block keying, but I believe that can be changed internally. No manual.

\$45 shipped in US.

72/73,

Steve, N4EUK
Reston, VA

Date: Mon, 13 Mar 2000 21:09:05 PST
From: "Michael Herman" <kc9nf@hotmail.com>
To: qrp-1@Lehigh.EDU, tentec@contesting.com
Subject: [65642] ten rec argonaut calibrator wanted
Message-ID: <20000314050905.48278.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

does anyone have a extra 509 style calibrator

mikeKc9nf

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Tue, 14 Mar 2000 05:22:40
From: "KA5T Larry Wise" <lewise@inetport.com>
To: "qrp" <qrp-1@lehigh.edu>
Subject: [65643] FS: Books, Back issues, etc
Message-ID: <200003140521.XAA23526@admin.inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

QRP Quartely - Journal of the QRP
Amateur Radio Club international
1995 - 1999 Four issues per year.
\$5.00 per year shipped CONUS

Whole lot \$20.00 shipped CONUS

QRPP - Journal of the Northern California
QRP Club
Bound Year sets 1993-1996
Individual copies, 4 per year, 1997 1998
All prices include shipping CONUS

1993 \$9 1994 - \$14 1995 - \$14 1996 - \$14
1997 - \$14 1998 - \$14

Whole lot \$40 shipped CONUS

Radio Handbook
William I. Orr, W6SAI Copyright 1970
Library of Congress Catalog Card Number: 40-33904
Eighteenth Edition First printing.
Good shape Hard Cover - some highlighting

\$20.00 Shipped CONUS

Radio Communication Handbook
Radio Society of Great Britain Copyright 1968
Fourth Edition Third Printing - 1971
Good shape Hard Cover with dust jacket

\$20.00 Shipped CONUS

Antenna Engineering Handbook
Henry Jasik , Editor Copyright 1961
Library of Congress Catalog Card Number: 59-14455
First Edition
Fair Shape Hard Cover Cloth Binding

\$25.00 Shipped CONUS

Electronic Applications of the Smith Chart
Phillip H. Smith Copyright 1969
Library of Congress Catalog Card Number: 6-12411
Good shape Hard Cover

\$20.00 Shipped CONUS

ARRL Microsmith - Smith Chart Simulation Software
Wes Hayward, W7ZOI Copyright 1992-1997
ARRL Product - Order number 4048
ISBN: 0-87259-408-4
Version 2.3
3 1/2 Diskette and User's Guide

\$20.00 shipped CONUS

QST - July 1968 thru Dec 1998
Can have for the taking. Local pickup only.
Must take them all.

Ham Radio - Mar 1968 thru Jun 1990 some missing
Can have for the taking. Local pickup only.
Must take them all.

CQ - Jan 1985 thru Dec 1998
Can have for the taking. Local pickup only.
Must take them all.

73 - Feb 1965 thru Feb 1992
Includes the good years when Jim Fisk was Editor...
Can have for the taking. Local pickup only.
Must take them all.

Amsat journals from Mar 1980 thru Dec 1999 under
various names.
Can have for postage or pickup. About 8 - 8 1/2 in worth.
Must take them all.

Feel free to make offers on anything you are interested in.

Larry KA5T
Georgetown, TX

Date: Tue, 14 Mar 2000 00:50:49 -0500
From: "George Heron N2APB" <n2apb@erols.com>
To: "NJQRP" <NJQRP@njqrp.org>, "Low Power Amateur Radio Discussion" <qrp-
l@lehigh.edu>, <eakwikjr@hti.com>
Subject: [65644] Re: XTALS, PCB stock needed. [Moving the TT2 and SNAP kits to
different bands]
Message-ID: <01c701bf8d79\$41cd5c40\$de5daccf@ire.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Ed,

This is a great question and one which I am sure that many, many others are also wondering about. When you have your Tuna Tin 2 transmitter working with the "stock" 7.040 MHz crystal, you naturally want to know what's involved in moving it to different bands.

The heart of the TT2 is a simple untuned "Pierce" oscillator operating at the fundamental frequency of its crystal. If you change the crystal, Q1 will oscillate at the new frequency.

So this means (for example) that you can drop in one of Doug Hendricks' 7.122 MHz crystals which he advertised the other day (10 for 10 bucks) and you'll have your TT2 working in the Novice portion of 40 meters, with no other mods! The low pass filter (LPF) after the Q2 buffer transistor is wide enough to allow this, and it will not significantly attenuate another 40 meter signal.

Q2 is merely a buffer stage used to isolate the Q1 oscillator from varying loads, thus allowing the signal generated by Q1 to be more stable during changing antenna conditions. This buffer is "untuned", meaning that there are no frequency-determining components involved in its operation. All it provides is impedance buffering and signal gain.

You might think that transformer T1 in the Q2 collector circuit is frequency-determining, but it actually just helps in matching the output impedance of the Q2 stage to the input of the low pass filter (LPF) consisting of L2 and C6, C7 and C11. This step-down transformer divides the Q2 output impedance (approx 575 ohms) by 4 and presents it to the LPF.

Now, when you want to take your TT2 to another band, such as 10m or 30m, the LPF components are the ones you'll need to adjust. The purpose of the LPF is to attenuate signals out beyond the frequency of operation, thus reducing the chance of spurious signals (like harmonics and other signal gudge) from making its way out to the antenna. So a LPF designed for 7.040 MHZ will attenuate a 10 MHZ signal if you put a 10 MHZ crystal in at Q1. So you need to redesign the LPF

There are several very popular computer programs used to automatically compute new values of the LPF. I regularly use the VE3ERP HamCalc program called PIMATCH. At least one place you can download HamCalc from is <http://www.qsl.net/wz1v/> . This is a wonderfully-graphic DOS program that prompts you to enter the impedances you have for the input of the LPF (which is the output impedance of the Q2 buffer amp), and the output impedance of the LPF (which is 50 ohms, for your typical antenna), and the desired Q of the filter (usually in the range of 3-5). After you enter this information, the capacitor and inductor values are displayed. You right these component values down.

First, you take care of the capacitors ... find the nearest value of standard capacitor from your junk box, or from your NorCal Capacitor Kit. For example, if the computed value for a capacitor is 452pF, you can safely use a 470pF cap.

Next, you need to determine how many turns to put on your L2 toroid in order to give you the desired inductance as specified in the PIMATCH program above. You can use the turns formula from the NA5N Data Book (section 2, Inductors, Toroidal), or once again you can turn to the wonderful computer programs supplied in HamCalc. This time the program is called TOROID, oddly enough :-). Run the program, specify the "mix" of the toroid core used in the TT2 (that's the 6 in a T37-6), and specify the desired inductance (from the other program) and the size of the wire (usually #26). A table of data is then displayed. Pick out the specific core being used (again, T37-6 in the TT2) and read across to find the number of turns needed.

That's it! So the short summary is: Run PIMATCH to determine the component values of the new LPF; and then run TOROID to determine the number of turns needed to give you the desired inductance! Then you'll be spoutin' out signals on whatever band you desire.

And BTW, the same technique also goes for other simple transmitters like the

SNAP. Same kind of crystal substitution and LPF adjustment.

Every question deserves a polite answer and I will gladly help you or others if there are more. Others may be short and abrupt on this list, but just ignore them as there are plenty of other guys who are more than willing to help, and will be polite about it too!

Hope this helps and encourages you experiment with your TT2 !

73, George N2APB
n2apb@amsat.org

PS: There's an absolute must-read for all QRPers interested in making small mods like this on their circuits. It's called Solid State Design for the Radio Amateur, published by the ARRL , written by Wes Hayward and Doug DeMaw, third printing 1995, \$15. Chapters 1 and 2 are absolutely essential for understanding the basics of transistor biasing and amplifier design ... exactly the circuits used in the TT2 and SNAP designs. This is the *best* reference I have ever come across and it's even more valuable because it takes real examples and works through the math. You'll love it, trust me!

----- Original Message -----

From: Edward A Kwik jr <eakwikjr@hti.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Friday, March 10, 2000 10:25 AM
Subject: Re: XTALS, PCB stock needed.

Has anyone done a 80 meter version of the TT2?

Ed AB8DF

Date: Mon, 13 Mar 2000 23:38:59 -0700
From: "Rod, N0RC" <n0rc@qsl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65645] SMT Soldering Station
Message-ID: <023501bf8d83\$64075ea0\$a1101004@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, my Weller WCC100 just won't cut-the-mustard for the SMT work

many of us are diving into. I can't afford a Metcal(sp) station, so what is a good choice for less than \$200? Hopefully _WAY_ less than \$200! ;-)

72/3 Rod, N0RC -- Fort Collins, CO

Date: Tue, 14 Mar 2000 00:09:19 -0700
From: "Brian P. Mileschosky" <n5zgt@swcp.com>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [65646] Re: Want: 10 meter Beacon Plans
Message-ID: <00d301bf8d84\$3801ba20\$090586cc@hlw11>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

Thanks to all those who passed on information and suggestions for building a 10-meter beacon! I appreciate it, and hop to have something on the air in the near future!

72,
Brian, N5ZGT

----- Original Message -----
From: Brian P. Mileschosky <n5zgt@swcp.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Sent: Sunday, March 12, 2000 5:13 PM
Subject: Want: 10 meter Beacon Plans

> Hi All,
>
> I'm looking to build/modify a 10 meter beacon to put on the air, but
> need a hand in locating plans. Any ideas? I'd like to get info on the
> actual transmitter, as well as the memory module for the CW message,
> etc.
>
> This is a new avenue I'd like to explore. What does everyone
> else use? Any help would be appreciated!
>

> 72,
> Brian, N5ZGT
> Albuquerque, NM
> <http://www.unm.edu/~brianm>
>
>
>

Date: Mon, 13 Mar 2000 23:38:23 -0900
From: "Bruce Hopkins - KL7H" <kl7h@gci.net>
To: <qrp-1@Lehigh.EDU>
Subject: [65647] Books for Sale...
Message-ID: <002901bf8d90\$aaa96b20\$19a7a1d0@computer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang...

I have several ARRL handbooks from several different years.. Here is your chance to get a copy of that handbook that you dog eared as a Novice... All are in good condition covers attached and all pages there... Little or no marking in any of them... Shipping to US addresses should run \$3.50 on each... If someone wants more than one book I will have them weighed and email you the shipping total... Many new radio items going up on my For Sail Sale page: <http://home.gci.net/~bhopskins/4sale>

1995 ARRL Handbook - Excellent condition: \$10 + ship...

1988 ARRL Handbook - Hardbound Good: \$10 + ship...

1970 ARRL Handbook - Good+: \$10 + ship...

1962 ARRL Handbook - Good: \$15 + ship...

1948 ARRL Handbook - Good: \$15 + ship...

.
1931 Audels Radiomans Guide - Very Good Cond: \$25 + ship...

.
ARRL Antenna Book Including Software 17th Edition Good+: \$15 + ship...

ARRL Antenna Book 14th Edition Good: \$5 + ship...

ARRL Antenna Book 1st Edition ?? No date or edition on it Good: \$5 + ship...

.
ARRL Weather Satellite Handbook 5th Edition Exc: \$10 + ship

ARRL Satellite Experimenters Handbook 2nd Edition Exc.: \$10 + ship

ARRL Low Band DXing 1st Edition Exc.: \$10 + ship

ARRL FM & Repeaters 2nd Edition Good+: \$5 + ship

Take care and have fun...

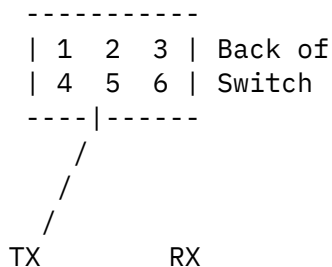
72 - Bruce - KL7H

Date: Tue, 14 Mar 2000 07:39:08 -0500
From: Bill Nicolson <n2wf@erols.com>
To: "njqrp@njqrp.org" <njqrp@njqrp.org>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [65648] Tuna Tin 2
Message-ID: <38CE32EC.C1D4A62@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi All!,

I finished my Tuna Tin 2 kit over the weekend!! Many thanks to George and the Boys for providing a really fun project. Last night I made a contact with another Tuna so It was a Tuna x 2 Qso.

I made a small modification to my TT2 Transmit - Receive switch. I replaced a SPDT switch with a DPDT so that when in the TX position the extra contacts short the RX antenna Jack to ground. See diagram below.



Term#

- 1- to Rx jack center
- 2- to Tx jack center
- 3- to S1 on PCB
- 4- no connection
- 5- to Ground ring on RX jack
- 6- jumper to terminal 1

I was afraid of overloading the front end of my receiver. I did notice some difference but I still turn down the RF gain when transmitting. anybody have any Ideas?? I'm going to replace the Hook-up wire inside my

TT2 with some small 50 ohm coax to see if that cuts down on the amount of TX signal getting into my receiver.

72 de Bill N2WF

PS: I hope the Diagram formats for you.

Date: Tue, 14 Mar 2000 08:05:17 -0500
From: Peter_Simpson@ne.3com.com
To: qrp-l@lehigh.edu
Subject: [65649] 1/2" CATV coax and PL-259 connectors
Message-ID: <852568A2.00478843.00@usboxmta.ne.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

I have been doing some research, and the solution to the "cheap connectors" problem appears to be some \$1.79 compression unions available at Home Depot.

What you want depends on what you need for a connector.

If you want to terminate in a PL-259, then a 1/2" to 1/2" compression union is what you need. You will also require a silver/teflon PL-259. Don't scrimp here. Radio Shack connectors are not acceptable!

Using the PL-259 body as a guide, measure one "body length" back from the cleanly cut end of the hardline, and, using a plumber's tubing cutter, cut through the aluminum outer jacket, and into the dielectric. I use a vise to grab the jacket and pull it off, but a pair of vice-grips or waterpump pliers should work well. Take the jacket and dielectric off, being careful not to nick the copper plated aluminum center conductor.

Now, using the body of the PL-259 again, measure another body length back from your first cut, and remove ONLY the aluminum jacket, leaving the dielectric intact. Disassemble the compression union. You should have two nuts, two ferrules and a center piece. The nut and ferrule may be a single assembly or they may be two separate parts.

Slide the nut and ferrule of the compression union onto the aluminum hardline. Use NoAlOx and a 3M scotchbrite pad to clean and coat the end of the aluminum for about an inch back from the cut you just made. Slide the center barrel of the union onto the hardline until it stops and tighten the nut and ferrule you have previously installed. This should firmly clamp the union

onto the hardline, leaving some dielectric and the center conductor extending out the other end.

Now, examine the center conductor carefully. There will be a clear plastic coating over the copper plating, which can be removed by starting a cut with a knife and then peeling the coating back. The center conductor is copper plated aluminum, so be careful not to nick it.

Take the other nut and ferrule, and loosely thread them onto the union. Take the PL-259, and slide it onto the center conductor, then screw it onto the dielectric, allowing the ferrule to slide over the rear of the connector body.

This is where it gets tricky. You want to get as much of the PL-259 body into the compression fitting as possible, while leaving enough room to undo the connector. This means you DO NOT want to screw the connector body all the way onto the dielectric. Leave enough room to unscrew the connector sleeve. When you're happy, tighten the second nut on the compression fitting. This should cause the ferrule to clamp down on the rear of the PL-259. You could solder the ferrule-to barrel joint if you're paranoid, I guess.

There should be a small bit of center conductor poking out the PL-259 center pin. Solder it as you normally would, then trim it. Remember that the center conductor is only copper-plated, so it would be a good idea to allow the solder to wick back between the pin and center conductor for maximum joint strength.

If you want a female connector, you can use a 1/2" to 5/8 compression union with a SO-239 barrel connector. The difference is that the center conductor of the hardline requires a small piece of brass tubing to increase its diameter enough to engage the center contact of the barrel connector.

Peter, KA1AXY

Date: Tue, 14 Mar 2000 08:10:04 -0500
From: Peter_Simpson@ne.3com.com
To: qrp-1@lehigh.edu
Subject: [65650] Yellow Ethernet Coax
Message-ID: <852568A2.0047F83F.00@usboxmta.ne.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Look out for used coax which has had "vampire tap" transceivers attached to it. Holes in the jacket and dielectric make it useless. New reels of the stuff, bought for distance testing, are great finds, though. I have three in my garage right now.

Regular (non-plenum rated - yellow) is Belden 9880
Teflon (plenum rated - orange) is Belden 89880

The specs work out to be a smidge better than RG-8.

Loss at 10 MHz is 0.52 dB/100 ft
Loss at 100 MHz is 1.70 dB/100 ft

Peter, KA1AXY

Date: Tue, 14 Mar 2000 13:18:52 -0000
From: "Andy GM0NWI" <Gm0nwi@tesco.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [65651] LEGO key..
Message-ID: <000701bf8db7\$d8ae5ae0\$0a14ac3e@q1n3l2>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi guy`s...

Could the ham who recently published "a little somethin`" and a Internet page link, for this wonderful concept in radio communication, please contact me direct or via the list...

I am desperate to have a "chat" with him regarding the construction of this fine piece of engineering..

Here`s hopin` he see`s this or someone who know`s him see`s this..

72s de Andy gm0nwi@tesco.net
GM0NWI
"Long Live QRP..!"

GQRP No.9576

Date: Tue, 14 Mar 2000 06:51:50 -0700
From: "Francis Callahan" <colcal@srv.net>
To: <QRP-L@lehigh.edu>
Subject: [65652] F/S or Swap
Message-ID: <000501bf8dbc\$740de920\$17de070c@callahan>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The following items are for sale or trade for QRP items, prefer to trade.
MFJ 945D ant tuner, Picket Microline modle 140 slide rule, Palamor noise
bridge,BillOrrs 1972 handbook, Bill Orrs sixteenth edition Radio Hand Book,
Operational Amplifiers second edition, Fundamentals of Logic Design third
edition, ARRL handbooks for 1946,1967,1975,1976,1977,1982. Thanks for the BW
reply direct colcal@srv.net or 208 357 7431 Cal KF7ET Idaho

Date: Tue, 14 Mar 2000 05:57:50 PST
From: "Peter Pavlovich" <radioroom@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [65653] Nice DX on 15 meters last night
Message-ID: <20000314135750.42199.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Howdy Guys,

Just a quick note. Don't forget to try 15 meters at night. Last night I
had a very nice 1 watt, QRP QSO with Igor, RA9UX in Kemerovo, Russia. He
was a solid 579 and I received a very nice 559 from Igor. Neither of us
needed to repeat a single thing during our 20 minute QSO. (I was using my
FT-1000mp cranked down, WM-2, and ground mounted Butternut vertical)

The real point here is not really a show and tell deal. Rather, just a
reminder to all that 15 meters is very quiet and lightly populated at night
these days....but also quite open. Just tune around and listen. Chances are
better than 50/50 that the few stations you hear are indeed DX. The best
part is that because there is so much room on the band, there is virtually
no QRM and these QSO's seem to be a "clear shot". Running QRP, you gotta
like that.

72 to all,

Peter Pavlovich N8EVJ

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Tue, 14 Mar 2000 08:04:16 -0600
From: "Joe Spencer" <joes@tcjc.cc.tx.us>
To: "QRP-L Discussion" <qrp-l@Lehigh.EDU>
Subject: [65654] Houston Hounds
Message-ID: <037e01bf8dbe\$3021fe20\$9d00430a@vectra>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Will someone from the "Houston Hounds" Foxhunters please contact me.

73 Joe KK5NA

To run from your demon is to have him pursue you.
It is better to meet him in his world, than to face him in yours!

Visit the RACC QRP Home Page at <http://www.k5rac.org>
Visit the FISTS Web page at <http://www.FISTS.org>
Visit NORTEX QRP Home PAGE at <http://www.quadj.com/nortex.htm>
Elecraft Web Page: <http://www.elecraft.com>

Date: Tue, 14 Mar 2000 07:04:07 -0700
From: Bruce Kizerian <kizerian@ced.utah.edu>
To: Dave Fifield <fifield@pacbell.net>, qrp-l@Lehigh.EDU
Subject: [65655] Re: Cheap Magnifying Spectacles, Old Guys, SMT
Message-ID: <38CE46D7.215A339D@ced.utah.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You are right Dave. With the combined lenses working distance is

close. I guess I should have mentioned that I like to get up close to my work.

Diopter is not magnification though it is directly proportional to it--the higher the diopter, the higher the magnification. Diopter is the refractive power of a lens expressed as the reciprocal of its focal length in meters. +3.0 diopters is typically about 1.75X. Typically, because the actual magnification depends on distance from the eyes and the characteristics of an individual's eyes.

An explanation from the Edmund Scientific catalog helps understand how a simple magnifier works:

"10" is assumed to be the closest vision you can focus for comfortable vision. An object only one inch from your eye would be 10 times larger, but out of focus. A magnifier's function is to make this close view possible." In other words a magnifier brings the close view into focus.

You can get fairly high magnification and long working distance, but the optical system is more complicated and very expensive. You need two small telescopes positioned a few mm in front of your eyes. You may have seen these devices. Doctors use them to do delicate surgery. If you can afford them this is the best device for doing close small detailed work.

Sorry, about the confusion--hope this clears it up.

Bruce

kk7zz

Date: Tue, 14 Mar 2000 09:38:57 -0500
From: "Randy Randall" <RANDALLR@Healthall.com>
To: <qrp-l@Lehigh.EDU>
Subject: [65656] SMT-1 Kit Status
Message-ID: <s8ce08ca.095@healthall.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable
Content-Disposition: inline

I haven't seen anything on QRP-L about how things are going lately. How close are they to shipping?

73

Randy.

Randy E. Randall
Network Engineer
The Health Alliance of Greater Cincinnati
3200 Burnet Ave.
Cincinnati, Ohio 45229
Ph. 513-585-7146
Fax 513-585-7159

Date: Tue, 14 Mar 2000 07:31:26 -0700
From: Maurice L Haynes <kv7g@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [65657] Question: QRP+ and Companion
Message-ID: <20000314.073452.-36819751.1.kv7g@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

I am in the process of an Estate sale and need a little info.
How can I tell a QRP+ from a QRP++ and what is the fair market value of each?.

What is the value of the QRP Companion that works with these units?
Also have some other QRP items and all will be posted here when the values are determined.
Private email would keep the traffic here down.

Thanks
Bud - KV7G - Yuma, AZ

Date: Tue, 14 Mar 2000 14:42:56
From: "KA5T Larry Wise" <lewise@inetport.com>
To: "qrp" <qrp-l@lehigh.edu>
Subject: [65658] Re: FS: Books and Manuals Back issues etc
Message-ID: <200003141440.IAA18535@admin.inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

The following have been spoken for:

Reflections book
1965 ARRL Handbook
Intro to RF Design
Both Solid State Designs
Low Band DXing
Both QRP Notebooks
W1FB Design Notebook

Antenna Compendium Volume 1
Antenna Compendium Volume 2
Antenna Compendium Volume 3
Antenna Compendium Volume 4
Antenna Compendium Volume 5
Antenna Compendium Volume 6

QRPp back issues
QRPQ back issues
Ham Radio Magazines

thanks,
Larry KA5T
Georgetown, TX

Date: Tue, 14 Mar 2000 07:08:39 -0800
From: "Barry L. Geipel AD6HR" <bgeipel@primenet.com>
To: <fifiield@pacbell.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [65659] Re: Mouser lookup Help???
Message-ID: <005a01bf8dc7\$2decdf90\$cbc9bbc0@cwil.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Is there another chip that does essentially the same thing as the NE602?
It does not need to be pin compatible, but should have the same
functionality.
Perhaps in a SMT package?

Barry

----- Original Message -----
From: "Dave Fifield" <fifiield@pacbell.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Sunday, March 12, 2000 11:40 PM
Subject: Re: Mouser lookup Help???

> Mark, Mouser does not carry the NE602 or SA612 etc. Dan's Small Parts
> used to carry them but I'm not sure if he still has any. There are some at
> the Anchor Electronics store on Walsh Ave in Santa Clara but I think they
> are very expensive there. Several of the big electronics distributors like
> Future Electronics, Avnet-Marshall etc. carry it in volume, but I think
> you'll get hit with large handling charges if you just want a few.
>
> Actually, I can sell you one or two as RHR spares for a very reasonable
> amount if you want....write to me directly.
>
> Cheers,
> Dave Fifield, AD6A
>
> ----- Original Message -----
> From: Mark Hogan <mhogan@email.msn.com>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Sent: Sunday, March 12, 2000 4:26 PM
> Subject: Mouser lookup Help???

>
>
> > Anyone help me find a mouser number for a SA612AN / NE602AN, I must not
> know
> > how to keyword search for it?
> >
> >
> >
> >
>
>

Date: Tue, 14 Mar 2000 10:25:35 -0500
From: Gregory Lawrence <gwl1@cornell.edu>
To: qrp-1@Lehigh.EDU
Subject: [65660] SNAP transformer in SPICE
Message-ID: <4.1.20000314101721.00a654c0@postoffice.mail.cornell.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello All:

Last night I was trying to model SNAP using a student copy of CircuitMaker.
I ran into a problem trying to assign an impedance value for the T1

transformer. Is there a formula or procedure to determine the value of a bifilar-wound inductor? Any help would be appreciated.

gregL w2jwm

Gregory Lawrence 607.255.3242
Government Information Librarian 607.255.0318 (fax)
Albert R. Mann Library GWL1@cornell.edu
Cornell University
Ithaca, NY 14853

In our libraries democracy is being reborn.

Date: Tue, 14 Mar 2000 10:36:04 -0500
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [65661] New K2
Message-ID: <20000314.103607.-229137.1.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

High Y'all

guess Ed done let the bag outta de cat... he's been building my k2 for me... it's sn 877 iffin I recall correctly... haven't seen it yet... I shipped the kit straingt form the postin office... they forewarded the package free iffin u don't open it...

In Ed's honor the little rig will be called Eddie Silver.... what, u don't have pet names for ur rigs?! shame...

Now if i can add some cajun twist to this mojo thing... we can have a k2 with a southern accent.... so when u hear the rig on the air u can say : that was "eddie silver" doing the cajun mojo".

I plan to take a picture of little eddie and hang it in the guinea pig house... They are already excited about the new addition to the family... and oinked a bit about it...

I shall endeavor to make meaux use of my silver Bencher iambic key... The other half of "Eddie Silver"...

KE1LA with all the OHoh (qrp+) and MOjo (k2) a fella could ask for....
Joel KE1LA
In Maine
counting melted sneaux flakes

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 14 Mar 2000 08:26:48 -0800 (PST)

From: Monte Stark <ku7y@dri.edu>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [65662] Re: 1/2" CATV coax and PL-259 connectors

Message-ID: <Pine.GSO.4.10.10003140806290.8537-100000@rotor.dri.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

There are several types of 1/2" CATV hardline. All of it that I know of is GOOD STUFF for us hams!

The kind I used in Washoe Valley had a very thin outer jacket. Almost like foil covered with that black plastic like outer covering.

With this style, PL259's are simple.

You need a small hose clamp, sharp knife, conductive paste and solder/iron.

Using the PL259 like Peter said, find how much center conductor needs to stick out past the center insulation. (I just use a good 2" and trim the excess later.)

Using a sharp knife, cut the outer jacket and center insulation being careful to NOT nick the center conductor. Twist this part off leaving about 2" of center conductor showing.

Now make 4 to 6 "slits" in the outer covering and foil-like shield. Make these slits about 2" to 3" long. (They run length wise).

Being very careful, pry the ends of the newly formed "tabs" up just a little.....something like 1/4".

Put the outer part of the PL259 on the connector. In other words, put the connector "together".

Put conductive paste on the outside of the top of the body of the connector.

Now slip the connector on the hard line with the center conductor going through the center pit.

Screw the connector onto the hardline. The insulation is foam and very "soft". In a worst case you might need to cut the edge off the insulation to get it to start into the connector body but I have always been able to just push it hard and get it to work OK.

Screw the connector on until the ends of the slit outer part of the cable are within about 1/4" of the top of the collar (the part of the connector that screws to the S0239).

Using a hose clamp to hold the "tabs" to the connector body.

Solder the center conductor. Cut off the excess and file off the sharp edges.

It is MUCH harder to explain how to do this than it is to just do it!

This type of hardline is much cheaper and isn't as rigid as the kind Peter has. But it works just fine.

I have also used the other kind of hardline and had to use compression fittings.

Hope this helps.

(I'm sure there are other styles out there that can also be used with different methods. You can ALWAYS resort to putting the two shields together with hose clamps and using wire nuts on the center conductors. That really does work well!)

OK, back in my hole....

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

Date: Tue, 14 Mar 2000 08:39:12 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [65663] Re: FS: KU7Y Retirement Sale
Message-ID: <Pine.GS0.4.10.10003140829580.8537-1000000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

I've been asked why Mary is selling my "stuff".

Good question and I thought I'd post here for all to see and understand!

It's really because she and Mark (her OM) are just super nice people!

Here's the story.....

As most know, we are doing the full time RV thing. There is NO room for a junk box.

Our kids have no interest in all my radio stuff. So I gave the junk box to Mary. And she has offered to take all the "for sale" items to their house and sell them for me.

Having NO room from which to conduct a sale, I took her up on her offer!

We have moved out of the 3 acre place. Got the last of the things cleared out Sunday. Two weeks before I can get the tower down. (The short one came down Sunday).

So just about everything that doesn't fit in the RV is up for sale.

We will be happy to include a little piece of carboard with the skunk signature on it if you like.....no extra charge!

Dealing with Mary will be just as if you were dealing with me. Except she can spell and looks nicer than me! :-)

OK, back in my hole....tks fer the bw.

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....

Date: Tue, 14 Mar 2000 16:56:49
From: "KA5T Larry Wise" <lewise@inetport.com>
To: "qrp" <qrp-1@lehigh.edu>
Subject: [65664] FS: Books, Manuals, Hardware, etc Still Available
Message-ID: <200003141655.KAA00819@admin.inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

W1FB's Antenna Notebook
Doug DeMaw, W1FB Copyright 1987
ARRL Pub # 73
ISBN: 0-87259-261-8 First Edition Fifth Printing 1993
Good shape Soft Cover

\$10.00 shipped CONUS

QRP POWER
Compiled by Joel Kleinman, N1BKE and Zack Lau, KH6CP/1 Copyright 1996
ARRL Pub # 210
ISBN: 0-87259-561-7 First Edition
Good shape Soft Cover

\$12.00 shipped CONUS

The 1992 Radio Amateur's Handbook
several Copyright 1991
ARRL Pub # 6
Library of Congress Catalog Card Number: 41-3345
ISBN: 0-87259-169-7 Fifty-Ninth Edition
Good shape Hard Cover

\$15.00 shipped CONUS

The 1986 Radio Amateur's Handbook
several Copyright 1985
ARRL Pub # 6
Library of Congress Catalog Card Number: 41-3345
ISBN: 0-87259-163-8 Sixty-Third Edition
Worn Soft Cover - Aged Clear packing tape on back binding and first page

\$10.00 shipped CONUS

The 1979 Radio Amateur's Handbook
several Copyright 1978
ARRL Pub # 6
Library of Congress Catalog Card Number: 41-3345
Fifty-Sixth Edition
Worn Soft Cover - Aged

\$5.00 shipped CONUS

The 1976 Radio Amateur's Handbook
several Copyright 1975
ARRL Pub # 6
Library of Congress Catalog Card Number: 41-3345
Fifty-Third Edition
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\$5.00 shipped CONUS

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several Copyright 1991
ARRL Pub # 15
Library of Congress Catalog Card Number: 55-8966
ISBN: 0-87259-206-5 16th Edition First Printing
Good shape Soft Cover

\$15.00 shipped CONUS

The ARRL Antenna Book
several Copyright 1984
ARRL Pub # 15
Library of Congress Catalog Card Number: 55-8966
ISBN: 0-87259-414-9 Fourteenth Edition 3rd Printing
Worn Soft Cover - Aged

\$5.00 shipped CONUS

The ARRL Antenna Book
Copyright 1968
ARRL Pub # 15
Library of Congress Catalog Card Number: 55-8966

Fair shape Soft Cover

\$5.00 shipped CONUS

The Radio Amateur's V.H.F. Manual

ARRL Copyright 1968

ARRL Pub # 15 (That's what it says...)

Library of Congress Catalog Card Number: 55-8966

Good shape Soft Cover

\$5.00 shipped CONUS

Technical Manual Sylvania Radio Tubes

Copyright 1951

Eighth Edition 3rd Printing

Well worn and aged...

10 in by 6 in Leatherette multi ring loose leaf binder

Has about 7/8 in of pages in it. Includes some TV tubes,
1,3,6,7,12,14,19,25,28,35,45,50,70,80,117 numbered tubes.

\$10.00 shipped CONUS

Complete QST CD SET. Includes 11 multi CD
sets that cover 1915 thru 1994, and 4 single CDs
with QST,QEX and NCJ for 1995 thru 1998.

\$310 shipped CONUS

TT-1330 30 meter xcvr built by me from kit.

Works fine. Full documentation.

\$75 shipped CONUS

Feel free to make offers...

Larry KA5T

Georgetown, TX

Date: Tue, 14 Mar 2000 08:57:09 -0800
From: Allan G Taylor <agtaylor@llnl.gov>
To: qrp-1@lehigh.edu
Subject: [65665] XCVR: sell Sierra/KC2 or trade for Sierra/KC1
Message-ID: <38CE6F65.2512@llnl.gov>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have a Sierra with a KC2 keyer/counter that I would like to trade for a Sierra with the simpler KC1 keyer/counter or a bare Sierra (no keyer or counter). As my use is strictly in the field, the KC1 makes more sense. It, the Sierra, comes with 40m, 30m, and 20m modules. It works well...I worked three countries including F00 (Marquesa I) last week on 40m. A 17m module also comes with it but is presently misbehaving in putting out only mW power levels (I am NOT a milliwatter). If interested in negotiating a trade, please contact me at either k7gt@aol.com or k7gt@qsl.net.

A direct sale would be for \$265 shipped CONUS. (Don't even think about negotiating for anything but a higher price...!)

Allan K7GT
Pleasanton CA

--
Allan Taylor K7GT agtaylor@llnl.gov
'QRO': DXCC/40CW DXCC 2000 Millenium award
'QRP': SOC #6 QRP ARCI #10146 HI/QRP #93

Date: Tue, 14 Mar 2000 11:01:59 -0600
From: "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [65666] RE: Question: QRP+ and Companion
Message-ID: <0974781F4FC8D211A24600902727E806011B2026@saturn.rose.cc.ok.us>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Maurice,

I think the QRP++ is only worth a couple of bucks fair market value if you be willing to sell it to me. Otherwise, better ask someone else.

Hal

-----Original Message-----

From: Maurice L Haynes [mailto:kv7g@juno.com]
Sent: Tuesday, March 14, 2000 8:31 AM
To: Low Power Amateur Radio Discussion
Subject: Question: QRP+ and Companion

I am in the process of an Estate sale and need a little info.
How can I tell a QRP+ from a QRP++ and what is the fair market value of each?.

What is the value of the QRP Companion that works with these units?
Also have some other QRP items and all will be posted here when the values are determined.
Private email would keep the traffic here down.

Thanks
Bud - KV7G - Yuma, AZ

Date: Tue, 14 Mar 2000 11:05:51 -0600
From: "Deitz, Harold L." <hdeitz@ms.rose.cc.ok.us>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [65667] RE: Question: QRP+ and Companion
Message-ID: <0974781F4FC8D211A24600902727E806011B2027@saturn.rose.cc.ok.us>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Maurice,

And the companion about fifty cents. :-)

Others,

He probably won't sell it to me.

-----Original Message-----

From: Deitz, Harold L. [mailto:hdeitz@ms.rose.cc.ok.us]
Sent: Tuesday, March 14, 2000 11:02 AM
To: Low Power Amateur Radio Discussion
Subject: RE: Question: QRP+ and Companion

Maurice,

I think the QRP++ is only worth a couple of bucks fair market value if you be willing to sell it to me. Otherwise, better ask someone else.

Hal

-----Original Message-----

From: Maurice L Haynes [mailto:kv7g@juno.com]

Sent: Tuesday, March 14, 2000 8:31 AM

To: Low Power Amateur Radio Discussion

Subject: Question: QRP+ and Companion

I am in the process of an Estate sale and need a little info.

How can I tell a QRP+ from a QRP++ and what is the fair market value of each?.

What is the value of the QRP Companion that works with these units?

Also have some other QRP items and all will be posted here when the values are determined.

Private email would keep the traffic here down.

Thanks

Bud - KV7G - Yuma, AZ

Date: Tue, 14 Mar 2000 11:07:34 -0600

From: "George T. Baker" <w5yr@att.net>

To: ku7y@dri.edu

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [65668] Re: FS: KU7Y Retirement Sale

Message-ID: <38CE71D6.74E2FD60@att.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Gee, now that "hole" will be on wheels? Hard to hit a moving target, Ron, but just think how fast those skunks will have to run to keep up! ;^)

72/73, George

Fairview, TX 30 mi NE Dallas in Collin county

Amateur Radio W5YR, in the 54th year and it just keeps getting better!

R/C since 1964 - AMA 98452 RVing since 1972 Kachina #91900556

Monte Stark wrote:

>

>
> As most know, we are doing the full time RV thing. There
> is NO room for a junk box.
>
> OK, back in my hole....tk's fer the bw.
>
> 73, Ron

Date: Tue, 14 Mar 2000 12:14:06 EST
From: ARDUJENSKI@aol.com
To: kv7g@juno.com, qrp-1@lehigh.edu
Subject: [65669] Re: Question: QRP+ and Companion
Message-ID: <76.226aceb.25ffcd5e@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I believe that Stan K7SY is selling NEW QRP PLUS'S at \$340 and ones with
backlit displays for \$370. Alan KB7MBI

Date: Tue, 14 Mar 2000 09:18:51 -0800
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [65670] Humourous CW snafu.
Message-ID: <38CE747B.659A@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

As usual, shack activities go on while the
radio plays in the background. So I'm
calibrating a pair of DSW-40 and 20 Meter
rigs last night while listening to these two
guys go on about attempting faster CW. One
guy mentions he's having trouble thinking and
sending at those speeds and it went like this:

"Whenever I try to sent faster I have trouble
connecting my fingers to my bra ? my bra ?
eeeeeeee my brain. Hi hi. That didn't come
out right har."

Still rolling on the floor laughing here.

72/Ed we6w

--

-72/Ed WE6W; A-1 OP; SOC #63 "AGN?"; QRP-L#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
Addicted to peanut butter and honey sandwiches...

Date: Tue, 14 Mar 2000 11:02:31 -0700 (MST)
From: Chuck Adams <adamsc@pr.erau.edu>
To: qrp-l@lehigh.edu
Subject: [65671] SPICE: xfrmr modeling
Message-ID: <200003141802.LAA09495@pr.erau.edu>

The question came up on modeling transformers in SPICE.

You do this by figuring out the inductance values for the primary and the secondary. This is done knowing the turn count and the A(L) value for the core. Use the standard formula found on page 6.24 of any new ARRL Handbook since 1995. Ooops. Make that 6.25.

Now look on page 6.48 at Fig 6.86. Put a dot on terminals 1 and 3 of the transformer and think of these as the + nodes for the inductors in SPICE.

```
L1 1 2 0.10uH
L2 3 4 0.10uH
KXFMR L1 L2 0.990
```

Where I'm assuming for a bifilar the same inductance for the primary and secondary (I made up the numbers 0.10uH, so be sure to use the values you get in doing the math) and I am assuming tightly coupled, thus the 0.990 factor.

I have yet to see a number published from real data on what the coupling factor should be or has been measured. I'm planning on doing the experiment on QRP-TECH.

Also if you are doing a simulation you will need to put high value resistors (on the order of 100megohms each) at nodes 2 and 4 to ground (node 0).

And if you are really really doing precise simulation calculations, how about a few hundreths of an ohm in series to simulate the internal resistance of the

wire and a parallel cap to simulate the distributive capacitance across the coils and then another coupling cap to simulate the capacitance coupling between the wires.....

FYI

:s xfmr

Date: Tue, 14 Mar 2000 10:08:13 -0800
From: Bill Jones <kd7s@psnw.com>
To: qrp-l@lehigh.edu
Subject: [65672] SMD Parts Hold-Down Jig
Message-ID: <38CE800D.63766A2D@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Friends,

With the interest in SMD gaining ground, I have added construction information for a very simple SMD hold-down jig to my web page. Check it out at <http://www.psnw.com/~kd7s>

--

Bill Jones - KD7S <><
Sanger, California
<http://www.psnw.com/~kd7s>

Date: Tue, 14 Mar 2000 10:40:12 PST
From: "Doug Hendricks" <ki6ds@hotmail.com>
To: qrp-l@lehigh.edu
Cc: fifield@pacbell.net, wa6ger@aol.com, jparker@fix.net
Subject: [65673] NorCal: SMK-1 Kit Status Report
Message-ID: <20000314184012.75661.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Randy Randall asked about the status of the SMK-1 40 meter transceiver kit being offered by NorCal. (Check www.redhotradio.com and click on SMK-1 button for full details.)

Good question Randy, and I'll try to fill you in on the details. We have all of the parts on order. The crystals should be here in 2 to 3 weeks. We have 150 SA612's here, and the rest have been promised in a few days. Every thing else should arrive today.

I have purchased a bin box (box of plastic bins to hold parts) and am now separating the parts from the reels. I have 12 parts done. This is a little slower than a through hole kit, in that I have to cut each part from the reel. We plan on shipping them in plastic bags that have been divided into sections, with a separate part in each section. There will be a key in the manual that you will lay the bag over to identify the parts. Very simple. Tried it on several people and I am confident that it will work nicely.

Dave has done another revision of the board. We found a great final transistor, the PZT2222A which is in an SOT89A package, thanks Kit Blanke! It is capable of a watt!!, but we won't drive it that hard. Dave should have the Rev. B prototype board Wednesday. He will build and test it, then go for the production order of boards. That will take about 2 more weeks.

He will also take notes as he builds the prototype and give me an order to use to kit the parts in the plastic bags. Let me warn you now, when you get the kit, DO NOT OPEN THE Parts Bag until you are ready to solder the parts!! The manual will be written by Dave as we wait for the production boards.

I will be getting some help from our kitting crew of Bill Jones, Dave Adams, Dave Fifield, Paul Maciel and James Bennett. Hopefully they will all be able to make it on the weekend we do the kits and we can crank out a whole bunch of them.

The orders are over 300 now, with 300 kits being sold the first week! Absolutely amazing. Thanks for the support, it makes it all worth doing. Thanks also to the guys who are doing the work, Jim Cates, Dave Fifield, George Heron and the NJ QRP Group. Plus the Kitting crew. Hey, did I tell you about the great matching case? The NJ Club is working with NorCal to do a companion custom designed case kit that includes all of the predrilled, precut pcboard parts to make your own case. They even include the rest of the parts needed to complete the kit, the 1/8" audio jack, the 1/8" key jack, the coaxial power jack, the bnc antenna jack, the three knobs for the pots, even the feet for the case, all for \$10!! Check the NJ QRP Page for full details.

If you have further questions, please ask. This is a project designed to help all of us learn a new skill and have fun. 72, Doug, KI6DS

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Tue, 14 Mar 2000 13:42:26 +0200
From: lenny wintfeld <w2bvh@home.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65674] Milliwatt QSO
Message-ID: <38CE25A2.A232A780@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi!

I called CQ early this afternoon with my TT2 (and attached HB vfo) and got a reply from Glenn, W2UW. He's about 145 miles away in Newark Valley, NY (nr. Binghamton). His sig was down in the mud (at times signal and noise were about equal).

I was astounded to find out that he was running a single transistor tx with 20 mW output!! We had a nice 20-25 min chat. I never thought that I would participate in a spontaneous (non-sked) qso at those power levels over those distances. (You read about these feats sometimes on the list, but it is nothing short of shocking when it happens to you!).

I always get a great kick out of my contacts using the TT2 (I've reached southern Canada and SC so far with its booming 330 mW), but this qso has got to be the highlight of my year (so far, at least...).

My hat's off to Glenn for his audacity!

73,

Lenny w2bvh

ps - my RX is an early '60's Hallicrafters tube set with l-c filter in the i-f.

Date: Tue, 14 Mar 2000 13:46:28 -0500
From: "Richard E. Robinson" <rerobins@email.uncc.edu>
To: qrp-l@lehigh.edu
Subject: [65675] HP-8558B Spec An help needed
Message-ID: <v03102805b4f4382f6bfff@[152.15.144.71]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I had an HP-8558B spectrum analyzer in a HP 182 frame follow me home from a hamfest Sunday. I know what it does and what I want it to do, I just don't know how to work the thing. Anyone know of a good spec an primer on the web?

Does anyone have any experience with the older HP spec ans? Do they use a powered probe or will my Tek scope probes work with it? There is a socket on the front labeled "Probe Power".

Finally, does anyone have a manual on the HP-85XX series of spectrum analyzer modules. The 8558B is a .1 to 1500MHz unit which should cover any QRP project that I want it to work with.

Thanks and 72,

Rick kf4ar

Date: Tue, 14 Mar 2000 11:30:36 PST
From: "Doug Hendricks" <ki6ds@hotmail.com>
To: n2apb@erols.com
Cc: qrp-l@lehigh.edu
Subject: [65676] Technical: Moving the TT2 to other bands
Message-ID: <20000314193036.44945.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

George, thanks for the great posting. I really appreciate posts like this that are informative, yet done in a manner that encourages others to ask questions on the list. We have many newbies to this list who want to learn about qrp, electronics and ham radio. One of the best ways to learn is to ask questions, but it is very important to answer the question in a way that not only explains the answer, but encourages the questioner to ask further questions if he needs help. As a teacher, I really appreciate this. Your answer to Ed is an outstanding example of how this should be done. You are a gentleman and a tremendous asset to the qrp community. Thanks for taking the time to help. 72, Doug.

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Tue, 14 Mar 2000 19:43:46 GMT

From: sherers@iname.com (Stephen Sherer)
To: qrp-1@Lehigh.EDU
Subject: [65677] HB Paddle Keys
Message-ID: <38ce95df.2946857@smtp.freewwwweb.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

Looking for a few designs for HB double lever paddle keys.
If you have a good idea for home construction or know of a good link I
would like to see it. A friend and I both want to experiment with
homebrew keys.=20
Regards,
Steve Sherer
sherers@iname.com

Date: Tue, 14 Mar 2000 12:02:58 -0800
From: Dave Barrett <DBarrett@creo.com>
To: "'sherers@iname.com'" <sherers@iname.com>, Low Power Amateur Radio Discussion
<qrp-1@Lehigh.EDU>
Subject: [65678] RE: HB Paddle Keys
Message-ID: <BFEEFC3386986D2119C0800A0C99B5DE6017728A4@msgcreo3.creo.bc.ca>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Go take a looksee at Jims fine paddles and my crude attempt at cloning them
at: <http://www.njqrp.org/mbrproj/paddles.html>
My previous call was VE7PCC.....
Dave VA7DB

-----Original Message-----
From: sherers@iname.com [mailto:sherers@iname.com]
Sent: Tuesday, 14 March, 2000 11:44 AM
To: Low Power Amateur Radio Discussion
Subject: HB Paddle Keys

Looking for a few designs for HB double lever paddle keys.
If you have a good idea for home construction or know of a good link I
would like to see it. A friend and I both want to experiment with
homebrew keys.
Regards,
Steve Sherer
sherers@iname.com

Date: Tue, 14 Mar 2000 13:02:18 -0700 (MST)
From: Chuck Adams <adamsc@pr.erau.edu>
To: qrp-1@lehigh.edu
Subject: [65679] SNAP: hints and kinks
Message-ID: <200003142002.NAA14344@pr.erau.edu>

Gang,

Well, George Heron, N2APB, did such a great job on the documentation for the SNAP contest that few have asked questions.

If you have not built your SNAP QRPP transmitter yet, then time is running out.... :-) On page 8, George has a layout of the parts. He shows the resistors and caps in a horizontal position.

In Figure 8 on page 7, there is a photo of Jim Kortge's work on the 2N22/40 board. You will note that the diodes, resistors, and axial leads are mounted in the vertical position. If you can mechanically do this, I recommend this to minimize the area taken up by the final circuit.

I hope that everyone knows what I mean by chain-nose pliers vs. needle nose pliers. The needle nose(d) pliers are in my own opinion much too large to bend leads for 1/4 and 1/8W resistors and will leave too large a bend in the leads. Chain-nose pliers you can find at most craft stores in the beads section. I found a real good pair for under \$8 here in Prescott at one of the shops before I moved here. But electronics places should have them also as well as Sears in the tool section of the store. The term chain-nose comes from the fact that jewelers use such pliers to work on chains for necklaces, etc. The links are much too small for the needle nosed pliers to work well.

A good pair of chain-nose pliers will last you a lifetime.

If you have seen the article in the new NJQRP Homebrew magazine you will see that I use stainless steel tweezers for pad placement. They can be found at the swap meets and at Harbor Freight for under \$1 each. Yet another great investment. I find that I can place a pad where I want it the first time everytime after having gotten the experience after placing only four or five when I first started.

I also did two other things. You'll note that the pads supplied by George have a small depression on one side. This is caused by the punch having a small raised point to hold the material in place to keep it from moving laterally while being punched. I took a regular file and removed the point on the punch. You may not want to do this to your punch, but I find that the pads come out flatter and the PC board material tends not to crack on some types of boards. I also used smaller pads to allow me to fit my parts into a much smaller area. Those of you at Atlanticon will get to see the critter as I will pass it around during the talk.

As George and others have suggested, use a straight key to key the transmitter. If you put in a keying transistor and circuit you will lose power output due to the additional voltage drop across the circuit. Wait until after the contest to add the keying circuit and go to 12.8V or more across the puppy for more output. But the real QRPp'er will be looking for means to reduce the power..... :-) ;-)

I want George to tell us where he got the Green wire!! :-)
I don't see it at any of the stores that I visit.

OK, that's just a few notes today. I HAVE to get back to the 2N22/40 or George will have me buying steak and lobster at some expensive place..... ;-)

dit dit

Chuck Adams, K7QO

Date: Tue, 14 Mar 2000 12:16:57 -0800
From: Jim/Julia <w7ls@blarg.net>
To: qrp-l@lehigh.edu

Subject: [65680] 38 Special FS
Message-ID: <38CE9E39.40F1B88B@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi. I have a really, really clean 38 Special rig with the 5 watt mod and the Tic keyer in it. This rig is exceptionally clean and could be used as a model for QST. Runs great. I don't have a current need for it, so I'd like to sell it. It is in a nice case, with knobs, jacks, the works. Ready to operate. I have the book, too. \$75/obo, plus shipping. I can take a picture, if you like. 73 de Jim, W7LS

Date: Tue, 14 Mar 2000 12:29:15 -0800
From: Ed Loranger <we6w@qsl.net>
To: Barney W7IHN <cbrlwaldrop@pullman.com>, Ben NW7DX <BenNW7DX@aol.com>, bill
stewart2 KF6RMK <lite65@earthlink.net>, Dan AD6JY <ad6jy@aol.com>,
Dave N6RZ <drowley@writeme.com>, Doug K6RPN <ewilson@nccn.net>, Floyd Worth
W6ZOH <floydzoh@firedragon.com>, Paul AA1LL <paul.e.gili@lmco.com>,
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65681] QRQ Net Practice Sentences.
Message-ID: <38CEA11B.1036@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Here are the traffic sentences for this
Sunday's QRQ Net.

QRQ Net Host: WE6W (Northern California)
Sunday, 7039 KHz, 7 PM PST.

(Monday 0300Z UTC)

Taken from: Section 20.5, "Reflections", by
M. Walter Maxwell, W2DU; 1st. Ed, 2nd Print, 1991.

- #1. Maximal broadside radiation occurs with a
.64 wavelength radiator.
- #2. The horizontal Extended Double Zepp uses
.64 wavelength elements.

#3. Far zone fading due to multiple pattern lobes is an EDZ consideration.

Net Procedure: Sending from 22 WPM to >50 WPM, increasing approx. 2 WPM to 4 WPM each round depending on group size.

Station Callup and broadcast round robin list order. NCS sends the 3 sentences and passes to next station.

Stations drop out when they wish, or may continue at their highest speed, ignoring current net speed.

The net is designed for fun and is not critical of your sending. The intent is to send the best code we can at the highest word speed. Progression occurs at the character rate and the word speed improves over time.

Hope you can join us.

--

-72/Ed WE6W; A-1 OP; SOC #63 "AGN?"; QRP-L#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
Addicted to peanut butter and honey sandwiches...

Date: Tue, 14 Mar 2000 12:50:04 -0800
From: Jim/Julia <w7ls@blarg.net>
To: qrp-l@lehigh.edu
Subject: [65682] SW-40+ for sale
Message-ID: <38CEA5FC.F6DC6FB9@blarg.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For sale: Small Wonder Labs SW-40+ qrp transceiver. 2 watts or so. Exceptionally clean constuction. Works flawlessly. In a nice case with all knobs, jacks, etc. It is current production kit. You can see it at www.smallwonderlabs.com

\$75 plus a few for UPS. Great for backpacking. Very tiny rig. Hot receiver, too.

Jim W7LS

Date: Tue, 14 Mar 2000 13:04:21 -0800
From: Bill Jones <kd7s@psnw.com>
To: qrp-1@lehigh.edu
Subject: [65683] Attention Kitano Key Users
Message-ID: <38CEA955.31E4AC4E@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If you use a Kitano Key I'd like to talk with you about "technique."

--

Bill Jones - KD7S <><
Sanger, California
<http://www.psnw.com/~kd7s>

Date: Tue, 14 Mar 2000 16:05:54 -0500
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.edu>
Subject: [65684] [FOX]: W1FB tonight
Message-ID: <125490A005E3D3118C9C00805FC743CC08D3F4@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hi, guys,

Just a reminder, W1FB, CT, Ed, #2222 will be the fox tonight at 0300-0500 Z on or about 7041.5 or 7039.5, depending on QRM and my crystal. I will be using the Tuna Tin 2, about 800 milliwatts, conditions warranted, and will switch over to my Omni D if the rate slows way down. Antenna is a 40-meter inverted vee at about 45 feet.

Do try to take a bit of pity on me for that initial pileup -- things really do go faster if there are fewer than 300 stations who call each time. I have noted that toward the end of the 2 hours, the FOX sometimes goes begging, so there should be time. Of course, W1FB may be a popular FOX, so I can't be sure. :-) The ones who should get in early are the W1s and W2s that are within 100 miles of my QTH; 40 will start going long by end of the run. I will stick around after midnight for some "non-fox" QSOs if there are any hams who didn't make it in time. I will use the FOX format for those Qs, but only the ones in the log before 0500 Z will get a pelt. Everyone else will have to settle for a card and W1FB certificate. :-)

Good luck!

73, Ed Hare, W1RFI, op tonight for W1FB

Date: Tue, 14 Mar 2000 22:09:45 +0100
From: "Carel Mulder, PA0CMU" <cmulder@casema.net>
To: qrp-1@Lehigh.EDU
Subject: [65685] Re: HB Paddle Keys
Message-ID: <38CEAA99.4E690363@casema.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Steve,

Take a look at the NorCal Page =>
<http://www.fix.net/norcal.html>
and read the articles from NB6M and PA0CMU.

Carel, pa0cmu.

Date: Tue, 14 Mar 2000 14:06:08 -0800
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [65686] NB6M Paddles, wow cool!
Message-ID: <38CEB7D0.41B8@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I'd heard but never seen the NB6M paddles. Wayne is a regular on teh QRQ net and even used them once or twice. Worked fine at QRQ too.

After seeing them on the Norcal page I just couldn't help but think how neat they'd look driving the pixie2 I built out of PCB material. Some have seen it. Others wish they hadn't! It be dog ugly.

On second thought, these paddles are too pretty to be paired up with the ol' 1997 homebrew pixie2.

Must build them someday, and perhaps a copper keyer

— —

<http://www.qsl.net/we6w> Santa Rosa, CA

From: k1vp@lawson-philpot.com

Cc: "Low Power Amateur Radio Discussion" <grp-1@Lehigh.EDU>

Message-ID: <20000314.22353293@office4.office.net>

Content-Type: text/plain; charset=ISO-8859-1

>>>>>>>>>>>>>>>> Original Message <<<<<<<<<<<<<<<<

> I can't be sure. :-) The ones who should get in early are the W1s and =

```
> that are within 100 miles of my QTH; 40 will start going long by end=20=
```

```
> run.=20
```

Will be in there calling for that W1FB certificate anyway after being=20=

Ed Lawson

From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>


```
>> I can't be sure. :-) The ones who should get in early
>> are the W1s and W2s that are within 100 miles of my
>> QTH; 40 will start going long by end of the run.
```

Well, it won't be the last event; we are planning a Field Day QRP expedition, probably to Rhode Island. :-)

<http://www.arrl.org/~ehare/grp/w1fbprop.bmp>

-----Original Message-----

>>>>>>>>>>>>>>> Original Message <<<<<<<<<<<<<<

On 3/14/00, 4:05:54 PM, "Hare, Ed, W1RFI" <w1rfi@arrl.org> wrote
regarding [FOX]: W1FB tonight:

> I can't be sure. :-)) The ones who should get in early are the W1s and
W2s
> that are within 100 miles of my QTH; 40 will start going long by end
of the
> run.

I fear it will be long before 0300 for those of us in New England.
Will be in there calling for that W1FB certificate anyway after being
away for the first event.

Ed Lawson
K1VP

Date: Tue, 14 Mar 2000 17:35:27 -0500
From: tom palmer <n1tp@worldnet.att.net>
To: joes@tcjc.cc.tx.us
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [65689] Re: Houston Hounds
Message-ID: <38CEBEAF.3D06BCF4@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"Houston Hounds"? Who/what are they?

Hi ...

Tom, N1TP
a "Swamp Rat"
Naples, Florida.

Joe Spencer wrote:

> Will someone from the "Houston Hounds" Foxhunters please contact me.
>
> 73 Joe KK5NA
> -----
> To run from your demon is to have him pursue you.
> It is better to meet him in his world, than to face him in yours!
> -----

> Visit the RACC QRP Home Page at <http://www.k5rac.org>
> Visit the FISTS Web page at <http://www.FISTS.org>
> Visit NORTEX QRP Home PAGE at <http://www.quadj.com/nortex.htm>
> Elecraft Web Page: <http://www.elecraft.com>

Date: Tue, 14 Mar 2000 15:41:44 -0700
From: Ray Colbert <af852@rgfn.epcc.edu>
To: ku7y@dri.edu
Subject: [65690] Re: FS: KU7Y Retirement Sale
Message-ID: <38CEC028.BA706A0A@rgfn.epcc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I want to know how you got the tower with the 2 el
40m beam mounted on the rv? My ladder just doesn't
look that sturdy! Hi!

73
Ray

--
"The more I see of the representatives of the people,
the more I admire my dogs."

letter from Count d'Orsay to John Foster 1850

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2 SOC#78
(also w5xe@juno.com El Paso, (FAR WEST) TEXAS

Date: Tue, 14 Mar 2000 14:56:51 -0800
From: "Richard Griffin" <richardg@protocol.com>
To: <qrp-1@Lehigh.EDU>
Subject: [65691] NB6Zep QRP antenna
Message-ID: <000201bf8e08\$96515b60\$58c402c7@protocol.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here is a good QRP antenna design with excellent documentation for
construction and performance. It also has a good story...
www.teleport.com/~nb6z/nb6zep.htm

Date: Tue, 14 Mar 2000 17:10:31 -0600
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: <w1rfi@arrl.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [65692] Re: [FOX]: W1FB tonight
Message-ID: <000301bf8e0a\$a6dbc0e0\$05987b7b@CSS0048.bergenbrunswick.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

And here I set in a hotel room in Tulsa tonight, sans radio.....

Dog-gone-it! Why didn't I bring the DSW-40?

Dan W. Dooley WB5TKA Bedford, Texas EM12ku
e-mail to: dandooley@pipeline.com
May Goddes love blest ye alle
SOC#198
"Ancient Pistol, I do partly understand your meaning."

-----Original Message-----

From: Hare, Ed, W1RFI <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Tuesday, March 14, 2000 3:07 PM
Subject: [FOX]: W1FB tonight

>Hi, guys,
>
>Just a reminder, W1FB, CT, Ed, #2222 will be the fox tonight at 0300-0500 Z
>on or about 7041.5 or 7039.5, depending on QRM and my crystal. I will be
>using the Tuna Tin 2, about 800 milliwatts, conditions warranted, and will
>switch over to my Omni D if the rate slows way down. Antenna is a 40-meter
>inverted vee at about 45 feet.
>
>
>73, Ed Hare, W1RFI, op tonight for W1FB
>

Date: Tue, 14 Mar 2000 15:32:30 -0800
From: Ed Loranger <we6w@qsl.net>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [65693] 20 Meter activity testing.
Message-ID: <38CECC0E.2DC9@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang, I'll be near 14.060 MHz tonight testing
a 2 Watt output DSW-20. I'd like to see
how it runs prior to sending it back to the
owner.

Will be on from aprox 01:30 to 02:30 Z depending
on propogation. I'll be on for sure and hopefully
promptly if I don't get stuck at HSC looking at
goodies...

TIA. -Ed

--

-72/Ed WE6W; A-1 OP; SOC #63 "AGN?"; QRP-L#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
Loan officer job? No. No one gets credit for my work.

End of QRP-L Digest 1760

